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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Richard CROYLE

Patent No.: 6,904,478

SN 09803036

Issued: June 7, 2005

For: TRANSCEIVER INTERFACE
REDUCTION

Atty. Docket No.: 004770.00661

Group Art Unit: 2112

Examiner: Paul R. Myers

NOTICE OF FILING POWER OF ATTORNEY

Commissioner for Patents
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

Attached hereto please find a Power of Attorney to Prosecute Applications Before the USPTO executed on behalf of Nokia Corporation, assignee of this application. Also attached is a Statement Under 37 CFR 3.73(b). Please direct all future correspondence in this patent to

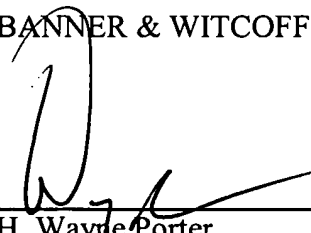
Customer Number 22907.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: May 3, 2006

By:


H. Wayne Porter
Reg. No. 42,084

1001 G Street, N.W.
Washington, D.C. 20001-4597
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Encl.



PTO/SB/80 (04-05)
Approved for use through 11/30/2005. OMB 0851-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

22907

OR



Practitioner(s) named below (If more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

22907

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Email


Assignee Name and Address:

Nokia Corporation
Keilalahdentie 4
FIN-02150, Espoo
FINLAND

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

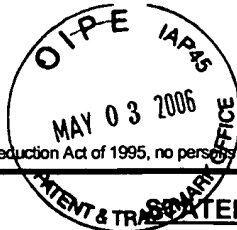
SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	14 October 2005
Name	Sami Saru	Telephone	+358 50 486 7688
Title	IPR External Associates Manager		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Richard CroyleApplication No./Patent No.: 6,904,478Filed/Issue Date: June 7, 2005Entitled: TRANSCEIVER INTERFACE REDUCTIONNokia Corp., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is ____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel ____, Frame ____, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Richard CroyleTo: Nokia Mobile Phones Limited

The document was recorded in the United States Patent and Trademark Office at
Reel 011602, Frame 0882, or for which a copy thereof is attached.

2. From: Nokia Mobile Phones LimitedTo: Nokia Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 017555, Frame 0687, or for which a copy thereof is attached.

3. From: _____

To: _____

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Reel ____, Frame ____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

May 3, 2006

Date

202-824-3000

Telephone Number


SignatureH. Wayne Porter

Typed or printed name

Attorney of Record

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 25, 2001

PTAS

ANTONELLI, TERRY, STOUT & KRAUS, LLP
CARL I. BRUNDIDGE
1300 NORTH SEVENTEETH STREET
SUITE 1800
ARLINGTON, VA 22209



101646092A

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 03/12/2001

REEL/FRAME: 011602/0882
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CROYLE, RICHARD

DOC DATE: 12/08/2000

ASSIGNEE:

NOKIA MOBILE PHONE LIMITED
KEILALAH DENTIE 4
02150 ESPOO, FINLAND

SERIAL NUMBER: 09803036
PATENT NUMBER:

FILING DATE: 03/12/2001
ISSUE DATE:

LAZENA MARTIN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

03-23-2001

Docket No.: 367.39780X00

SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Richard CROYLEAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: Dec. 8, 2000

2. Name and address of receiving party(ies):

Name: Nokia Mobile Phone Limited

Street Address: Keilalahdentie 4

City: 02150 Espoo

Country: Finland

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: Dec. 8, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP

Internal Address:

Street Address: 1300 North Seventeenth Street
Suite 1800

City: Arlington State: VA Zip: 22209

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$40.00

- ☒ Enclosed
☒ Any deficiencies may be charged to deposit account
☐ Authorized to be charged to deposit account

8. Deposit account number: 01-2135

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Carl I. Brundidge

Name of Person Signing
Attorney Registration No. 29,621

Signature

March 12, 2001
Date

Total number of pages including cover sheet, attachments, and document: 2

OMB No. 0651-0011 (exp. 4/94)

03/14/2001 EHAILU 00000023 09803036

02 FC:581

40.00 OP

ASSIGNMENT

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvements in and relating to Transceiver Interface Reduction

- ☒ for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
- ☐ for which U.S. Application Serial No. _____ for Letters Patent was filed in the U.S. Patent and Trademark Office on _____
- ☐ for which an International Application _____ as _____, designating the United States. was filed on _____

AND WHEREAS Nokia Mobile Phone Limited
Keilalahdentie 4
02150 Espoo
Finland


hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Anttoneli, Terry, Stout, Kraus, LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

1	FULL NAME OF SOLE OR FIRST NAMED INVENTOR Richard Croyle	INVENTOR'S SIGNATURE 	DATE 8/12/00 (12/8/00 - us)
2	FULL NAME OF SECOND NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
3	FULL NAME OF THIRD NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
4	FULL NAME OF FOURTH NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
5	FULL NAME OF FIFTH NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 02, 2006

PTAS

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500099702A

H. WAYNE PORTER
1001 G STREET, NW
11TH FLOOR
WASHINGTON, DC 20001-4597

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RECORDATION DATE: 05/02/2006

REEL/FRAME: 017555/0687

NUMBER OF PAGES: 22

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 004770.00661

ASSIGNOR:

NOKIA MOBILE PHONES LIMITED

DOC DATE: 10/02/2001

ASSIGNEE:

NOKIA CORPORATION
KEILALAHDENTIE 4
ESPOO, FINLAND 02150

SERIAL NUMBER: 09803036

FILING DATE: 03/12/2001

PATENT NUMBER: 6904478

ISSUE DATE: 06/07/2005

TITLE: TRANSCEIVER INTERFACE REDUCTION

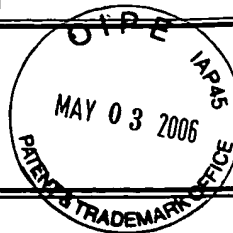
017555/0687 PAGE 2

ANTIONE ROYALL, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

05/02/2006
500099702



SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

CHANGE OF NAME

CONVEYING PARTY DATA

Name	Execution Date
Nokia Mobile Phones Limited	10/02/2001

RECEIVING PARTY DATA

Name:	Nokia Corporation
Street Address:	Keilalahdentie 4
City:	Espoo
State/Country:	FINLAND
Postal Code:	02150

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6904478

CORRESPONDENCE DATA

Fax Number: (202)824-3001

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202-824-3000

Email: wporter@bannerwitcoff.com

Correspondent Name: H. Wayne Porter

Address Line 1: 1001 G Street, NW

Address Line 2: 11th Floor

Address Line 4: Washington, DISTRICT OF COLUMBIA 20001-4597

ATTORNEY DOCKET NUMBER:

004770.00661

NAME OF SUBMITTER:

H. Wayne Porter

Total Attachments: 20

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